Consat Telematics
Data Insight

Q4 2025

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Advanced analytics

Leveraging data from connected systems, Consat's analytics solution enables customers to continuously monitor performance and results across their operations. The predefined reports, available in Power BI, provide structured insights into key areas of public transportation - helping organisations turn operational data into measurable improvements.
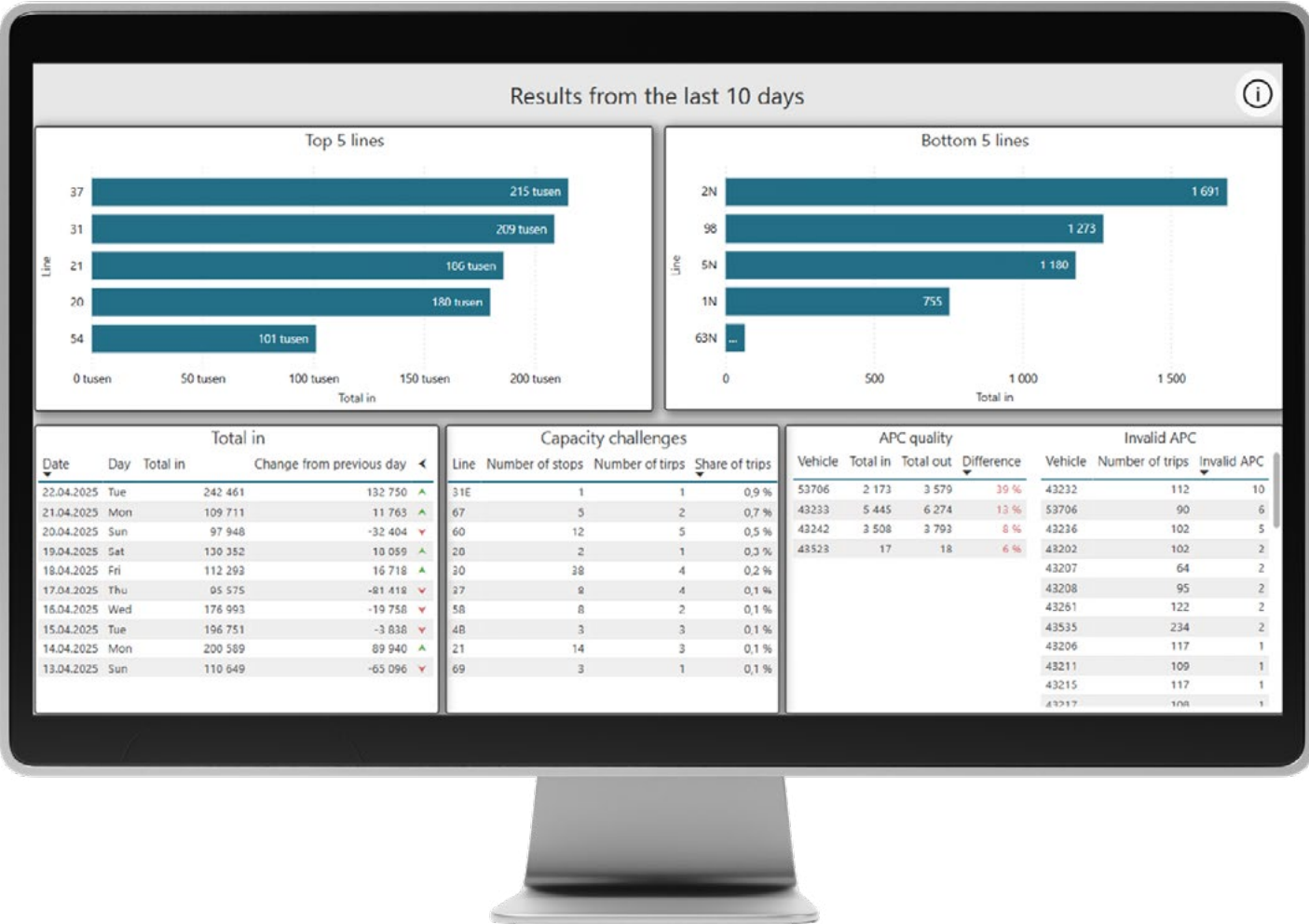
Consat Telematics Data Insights

Turning complex data into clear, actionable insights is the key to continuous improvement in public transportation. Yet, many operators and authorities struggle to make sense of fragmented data sources, manual reporting, and disconnected systems. Without clear visibility into vehicle performance, passenger behaviour, and energy usage, it becomes difficult to plan efficiently, reduce costs, or meet sustainability goals.
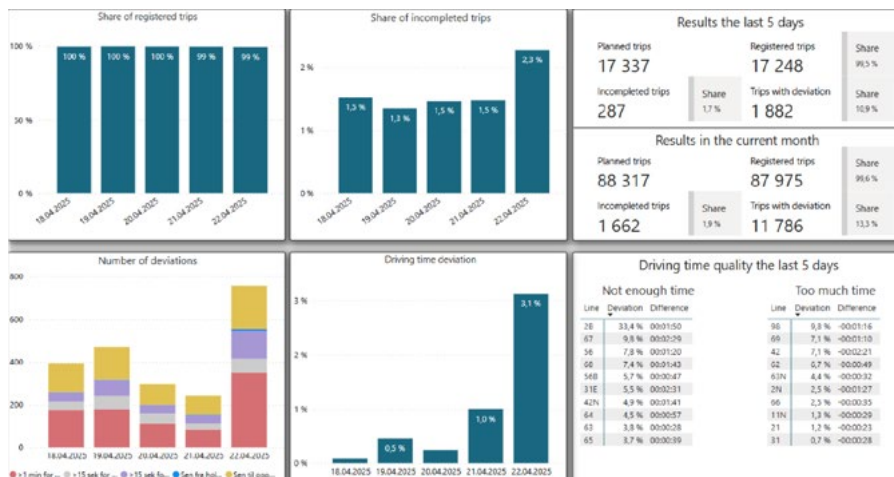
Consat Telematics' Data Insights solution empowers public transportation operators and authorities to make smarter, data-driven decisions. By transforming raw operational data into powerful analytics and visual dashboards, the solution helps identify patterns, optimise performance, and continuously improve reliability and efficiency, supporting more sustainable, cost-effective, and high-quality operations.

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Reports available in Power BI

Three core areas of predefined reports have been developed to provide a comprehensive view of public transportation operations. Each area offers targeted insights that, together, form a holistic understanding of system performance:

- **Passenger reports** – focusing on passenger counting data, these reports reveal travel patterns, capacity utilisation, and variations in demand across routes and times of day. Examples include:
    - Identify boarding and alighting trends to improve route planning.
    - Detect capacity challenges and peak-hour congestion.
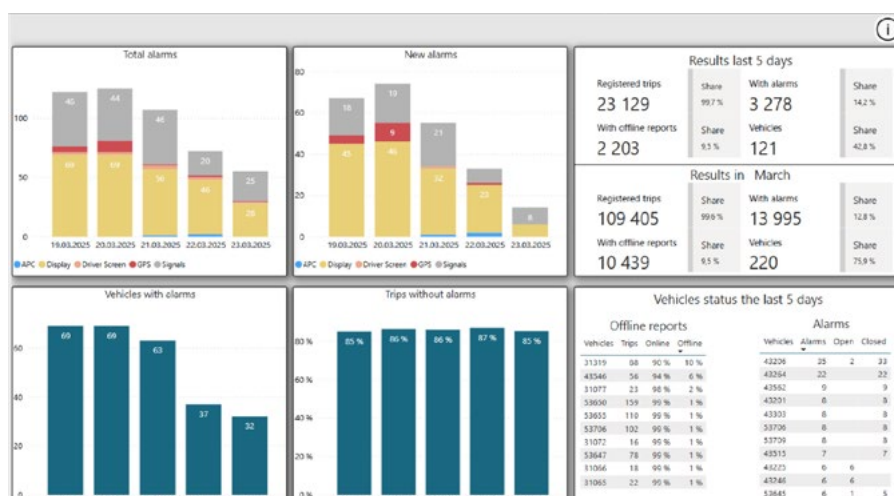   - Ensure data accuracy through automated quality checks (APC validation).

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Production reports – analysing key aspects of operational performance such as planned versus executed trips, punctuality, deviations, and energy consumption. Examples include:
- Compare scheduled and actual production to monitor service delivery.
- Evaluate punctuality, connection performance, and driving time quality.
- Track energy and fuel use across vehicle types for operational optimisation.

Vehicle reports – providing visibility into vehicle health, uptime, and communication status. Examples include:
- Monitor alarms, faults, and communication issues in real time.
- Track vehicle uptime and identify recurring technical disturbances.
- Support preventive maintenance and reduce downtime through early detection.

The benefits for public transportation operators and authorities

- **Operational efficiency and cost management:** Provides detailed insights into energy use, fleet performance, and production results, enabling better planning, improved maintenance scheduling, and reduced operational costs across the network.

- **Sustainability and regulatory compliance:** Supports greener operations by identifying opportunities to optimise energy efficiency and reduce emissions. Helps ensure compliance with environmental regulations and contributes to broader sustainability goals.

- **Data quality:** Delivers transparent and reliable insights into passenger and production data accuracy, helping PTAs and PTOs monitor data performance, detect discrepancies, and drive continuous improvement.

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Traffic Control and Monitoring

Manage daily operations with real-time information and data insights.

Vehicle and Fleet Management

Vehicle telematics integrated into public transportation for complete control.

Passenger Information

Enhance the travel experience for all public transportation users.

Driver Assistance

Enhance hiring appeal while supporting the driver in their daily work.

Electromobility

Seamless integration with existing public transportation operations, providing a unified view of the entire fleet.

Data Insights

Offering valuable insights for continuous improvement in public transportation operations.
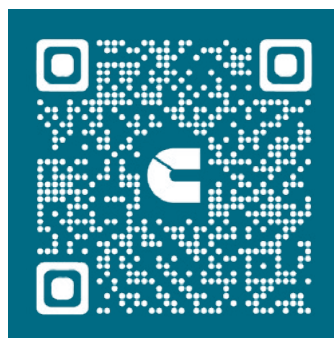
Bringing intelligent public transportation to life

Consat Telematics is dedicated to reducing the environmental impact of public transportation through cutting-edge innovation and widespread implementation. Aspiring to global leadership in executing electrification and digitalization within public transportation, we serve diverse markets and organizations.

Our promise is a user centric, modular, and adaptable intelligent public transportation solution that never compromises on quality, reliability, and security. By placing our customers at the core, we ensure that more organisations can receive better data to monitor, manage, and improve their operations.

Contact for more information or a demo:

www.consat.com/telematics/

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